CIVIL AIM CONSULTANTS & ENGINEERS
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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC ABSTRACT

Nameof Work: "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	1:3:6	13.77 Cum	1	1	Pass
2	M15	11.64 Cum	2	2	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MBP/W.No.05/2023-24 Date: 12.04.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises),** Contractor, Bangalore.
NAME OF THE WORK	:	"Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE	:	March - 2023
DATE OF TESTING	:	10.04.2023 to 12.04.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Job No : CACE/BBMP/MBP/W.No.05/2023-24 Date : 12.04.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.

Name of Work "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Date of Testing : 12.04.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	23	2.30	2.30	97.7	90-100
1.18	49	4.90	7.20	92.8	70-100
600 Micron	85	8.50	15.70	84.3	40-100
300 Micron	275	27.50	43.20	56.8	5-70
150 Micron	485	48.50	91.70	8.3	0-15

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Job No.: CACE/BBMP/MBP/W.No.05/2023-24 Date : 12.04.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency **Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.**

Name of Work "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Date of Testing : 12.04.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	131	13.10	20.90	79.1	75-100
1.18	190	19.00	39.90	60.1	55-90
600 Micron	164	16.40	56.30	43.7	35-59
300 Micron	248	24.80	81.10	18.9	8-30
150 Micron	129	12.90	94.00	6.0	0-10

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Job No.: CACE/BBMP/MBP/W.No.05/2023-24 Date : 12.04.2023

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.

Name of Work "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Date of Testing : 12.04.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	194	3.9	3.9	96.1	95-100
10	2459	49.2	53.1	46.9	25-55
4.75	1955	39.1	92.2	7.8	0-10

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Job No.: CACE/BBMP/MBP/W.No.05/2023-24 Date : 12.04.2023

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency **Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.**

Name of Work "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Date of Testing : 12.04.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	199	1.33	1.33	98.67	95-100
20	8235	54.90	56.23	43.77	30-70
10	3271	21.81	78.03	21.97	10-35
4.75	2805	18.70	96.73	3.27	0-5

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Job No CACE/BBMP/MBP/W.No.05/2023-24 24.04.2023

TEST REPORT OF GALVALUME

Client	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.
Name of Work	"Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."
Sample Identification	20*20mm
Reference BIS Codes:	IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008
Date of test:	24.04.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	589
2	Yeild Strength, N/mm^2	514

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Job No CACE/BBMP/MBP/W.No.05/2023-24 24.04.2023

TEST REPORT OF GALVALUME

Client	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.
Name of Work	"Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."
Sample Identification	132*132mm
Reference BIS Codes:	IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008
Date of test:	24.04.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	598
2	Yeild Strength, N/mm^2	514

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Job No CACE/BBMP/MBP/W.No.05/2023-24 24.04.2023

TEST REPORT OF GALVALUME

Client	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.
Name of Work	"Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."
Sample Identification	12*75mm
Reference BIS Codes:	IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008
Date of test:	24.04.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	601
2	Yeild Strength, N/mm^2	531

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Job No CACE/BBMP/MBP/W.No.05/2023-24 24.04.2023

TEST REPORT OF GALVALUME

Client	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.
Name of Work	"Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."
Sample Identification	72*72*4.8mm
Reference BIS Codes:	IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008
Date of test:	24.04.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	601
2	Yeild Strength, N/mm^2	518

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Job No CACE/BBMP/MBP/W.No.05/2023-24 24.04.2023

TEST REPORT OF GALVALUME

Client	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.
Name of Work	"Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."
Sample Identification	50*6mm
Reference BIS Codes:	IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008
Date of test:	24.04.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	597
2	Yeild Strength, N/mm^2	512

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Job No CACE/BBMP/MBP/W.No.05/2023-24 Date:24.04.2023

TEST REPORT OF GALVALUME

Client	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.
Name of Work	"Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."
Sample Identification	75mm
Reference BIS Codes:	IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008
Date of test:	24.04.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	589
2	Yeild Strength, N/mm^2	506

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For CIVIL AIM CONSULTANTS & ENGINEERS

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School

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Job No.: CACE/BBMP/MBP/W.No.05/2023-24 Date: 03.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.

Name of the work : "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2023	03.05.2023	8.142	272.3	12.10
2	26.04.2023	03.05.2023	8.145	274.8	12.21
3	26.04.2023	03.05.2023	8.149	276.7	12.30

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Job No.: CACE/BBMP/MBP/W.No.05/2023-24 Date: 24.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.**

Name of the work : "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2023	24.05.2023	8.174	377.2	16.76
2	26.04.2023	24.05.2023	8.177	380.5	16.91
3	26.04.2023	24.05.2023	8.181	381.9	16.97

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Job No.: CACE/BBMP/MBP/W.No.05/2023-24 Date: 24.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : Prop. Sri.B.P Mahesh (Sri Sai Manjunath Enterprises), Contractor, Bangalore.

Name of the work : "Improvements of pathway and grill fencing to 3rd phase EWS park in Ward No.05."

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2023	24.05.2023	8.180	379.8	16.88
2	26.04.2023	24.05.2023	8.187	381.9	16.97
3	26.04.2023	24.05.2023	8.189	383.2	17.03

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಆ ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

For CIVIL AIM CONSULTANTS & ENGINEERS